

FIG. 1

1 ATGGCCGCTCGCGGGTGTCTGAACGCCCGCGCGCGGAGACGGTCCGGCAGACGCGT
 1 MetAlaAlaArgGlyGlyAlaGluArgAlaAlaGlyAlaGlyAspGlyArgArgGlyGlnArg
 64 CGTCATCTACGACCGGACGTGTTCTCGCTGCTCTACGCGTCTGCAGCGCCTTGGCGCCGGC
 22 ArgHisLeuArgProGlyArgValLeuAlaAlaLeuArgGlyProAlaAlaProGlyAlaGly
 127 GGGCGCGCGCGCTAGCCGCTGCCCTGCTATGGCGGACGTGGGCCCTGCTGCTGGCGCGG
 43 GlyAlaArgAlaAlaLeuAlaAlaAlaLeuLeuTTPAlaThrTPAlaLeuLeuAlaAla
 190 CCCGCCCGCGGACCGCGACACGCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
 64 ProAlaAlaGlyArgProAlaThrThrProProAlaProProGluGluAlaAlaSerPro
 253 GCGCCCCCGCGAGCCCCAGCCCCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGAAC
 85 AlaProProAlaSerProSerProGlyProGlyProGlyAspAlaAlaSerProAspAsn
 316 AGCACAGACGTGCGCGCGCGCTCCGGCTCGCGCAGCGCGCGCGGGAACCTCGCGCTTCTTC
 106 SerThrAspValArgAlaAlaLeuArgLeuAlaGlnAlaAlaGlyGluAsnSerArgPhePhe
 379 GTGTGCCCCCGCCCTCGGGCGCCACGGTGTCTCGCGCGCGCGCGCGCGCGCGCGCGT
 127 ValCysProProProSerGlyAlaThrValValArgLeuAlaProAlaArgProCysProGlu
 442 TACGGGCTCGGGCGGAACCTACACGGAGGGCATCGGCGTCATTACAGGAGAACATCGCGCGG
 148 TyrGlyLeuGlyArgAsnTyrThrGluGlyIleGlyValIleTyrLysGluAsnIleAlaPro
 505 TACACGTTCAAGGCCTACATTTACAAAACGTGATCGTGACACCGACCTGGGCGGCAGCAGC
 169 TyrThrPheLysAlaTyrIleTyrLysAsnValIleValThrThrThrTPAlaGlySerThr

FIG. 2A

568 TACGGCGCCATTACAAACAGTACACGACCGCGTCCCGTGGCATGGCGAGATCACGGAC
190 ▶ TyzAlaAlaIleThrAsnGlnTyrThrAspArgValProValGlyMetGlyGluIleThrAsp
631 CTGGTGGACAAGAAGTGGCGCTGCCCTTTTCGAAAGCCGAGTACCTGCGCAGCGCGCAAGGTG
211 ▶ LeuValAspLysLysThrPArgCysLeuSerLysAlaGlnTyrLeuArgSerGlyArgLysVal
694 GTGGCCTTTGACCGCGACGACGACCCCTGGAGCGCGCGCTGAAGCCTGCGCGCGCTGAGCGCG
232 ▶ ValAlaPheAspArgAspAspProThrPgluAlaProLeuLysProAlaArgLeuSerAla
757 CCCGGGTGGGGCTGCCACACGACGACGATGTGTACACGGCGCTGGGCTCGGGCGGGCTC
253 ▶ ProGlyValArgGlyTyrPHisThrThrAspValTyrThrAlaLeuGlySerAlaGlyLeu
820 TACCGCACGGCACCTCTGTGAACGTGTAAGAAAGTGGAGCGCGCTCGGTGTACCCG
274 ▶ TyrArgThrGlyThrSerValAsnCysIleValGluGluValGluAlaArgSerValTyrPro
883 TACGACTCGTTCGGCTCTCGACCGGGACATTATCTACATGTCCGCCCTTTTACGGGCTCGGC
295 ▶ TyrAspSerPheAlaLeuSerThrGlyAspIleIleTyrMetSerProPheTyrGlyLeuArg
946 GAGGGCGCGCACCGGAGCACACAGGCTACTCGCCGGAGCGCTTCCAGCAGATCGAGGGCTA
316 ▶ GluGlyAlaHisArgGluHisThrArgLeuLeuAlaGlyAlaLeuProAlaAspArgGlyLeu
1009 CTACAAGCGGACATGGCCACGGCCCGCGCTCAAGGAGCGGTCTCGCGGAACTTTGTGCG
337 ▶ LeuGlnAlaArgHisGlyHisGlyProAlaProGlnGlyAlaGlyLeuAlaGluLeuPheAla
1072 TACACAGCACGTGACGGTAGCCTGGGACTGGGTGCCCAAGCGCAAAACGTGTGCTCGCTGGC
358 ▶ TyrThrAlaArgAspGlySerLeuGlyLeuGlyAlaGlnAlaGlnLysArgValLeuAlaGly

FIG. 2B

1135 CAAGTGGCGGAGCGGACGAAATGCTGCCGAGACGAGCGCGGGAACCTCCGCTTCACGGC
 379 ▶ GlnValAlaArgGlyGlyArgAsnAlaAlaArgArgGluProArgGluLeuProLeuHisGly
 1198 CCGCTCGCTCTCGCGACCTTTTGTGAGCGACAGCCACACCTTCGCGTTGCCAGAAATGTGCCGCT
 400 ▶ ProLeuAlaLeuGlyAspLeuCysGluArgGlnProHisLeuArgValAlaGluCysAlaAla
 1261 GAGCGACTGCGTGATCGAAGAGCGCGGAGCGCGGTCTACCGGAGCGCTACAA
 421 ▶ GluArgLeuArgAspArgArgGlyArgGlyArgGlyArgGlyLeuProArgAlaLeuGln
 1324 CGGCACGCACGTCTCGGGCAGCTTGGAGACGTACCTGCGCGCGCGGCTTTGTCTGCTGGC
 442 ▶ ArgHisAlaArgAlaValGlyGlnLeuGlyAspValProGlyAlaArgArgLeuCysArgGly
 1387 CTTCCGGCGATGCTCAGCAACGAGCTGGCCAAGCTGTACCTGCAGGAGCTGGCGCGCTCGAAC
 463 ▶ LeuProAlaMetLeuSerAsnGluLeuAlaLysLeuTyrLeuGlnGluLeuAlaArgSerAsn
 1450 GGCACGCTCGAGGGCTGTTCCGCGCGCGCGCCCAAGCCGCGCGCGCGCGCGCGCGCGC
 484 ▶ GlyThrLeuGluGlyLeuPheAlaAlaAlaProLysProGlyProArgArgAlaArgArg
 1513 GCCGCGCGTCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC
 505 ▶ AlaAlaProSerAlaProGlyGlyProGlyAlaAlaAsnGlyProAlaGlyAspGlyAspAla
 1576 GCGCGCGGGTGACTACCGTGAGCTCGGCGCGAGTTTGCGGCGCTGCAGTTCACCTACGACCAC
 526 ▶ GlyGlyArgValThrThrValSerSerAlaGluPheAlaAlaLeuGlnPheThrTyrAspHis
 1639 ATCCAGGACCACTGACACCATGTTTCAGCCGCGCTGGCCACGTCTGCTGCTGCTGCTGCAAC
 547 ▶ IleGlnAspHisValAsnThrMetPheSerArgLeuAlaThrSerTrpCysLeuLeuGlnAsn

FIG. 2C

1702 AAGAGCGCGCCCTGTGGCCGAGCGGCTAAGCTCAACCCAGCGCGCGCGCGCGCTGCG
 568 ▶ LysGluArgAlaLeuTrpAlaGluAlaAlaLysLeuAsnProSerAlaAlaAlaSerAlaAla
 1765 CTGGACCGCGCGCGCGCGCATGTTGGGGACGCCATGGCCGTACGTACTGCCACCGAG
 589 ▶ LeuAspArgArgAlaAlaAlaArgMetLeuGlyAspAlaMetAlaValThrTyrCysHisGlu
 1828 CTGGCGGAGCGCGGTGTTTCATCGAGAACTCGATGCGCGCGCGCGCGGCTTGTCTACAGC
 610 ▶ LeuGlyGluGlyArgValPheIleGluAsnSerMetArgAlaProGlyGlyValCysTyrSer
 1891 CGCCCGCGCGTCTCCTTTGCCCTTCGGCAACGAGAGCGCGCGGTGGAGGGCGCGCTCGCGGAG
 631 ▶ ArgProProValSerPheAlaPheGlyAsnGluSerGluProValGluGlyGlnLeuGlyGlu
 1954 GACAAACGAGCTGCTGCCGCGCGGAGCTCGTGGAGCCCTGCACCGCAACCAAGCGCTAC
 652 ▶ AspAsnGluLeuLeuProGlyArgGluLeuValGluProCysThrAlaAsnHisLysArgTyr
 2017 TTCCGCTTTGGCGCGGACTACGTGTACTACGAGAACTACGCGTACGTGCGGGCGGTCCTC
 673 ▶ PheArgPheGlyAlaAspTyrValTyrTyrGluAsnTyrAlaTyrValArgArgValProLeu
 2080 GCGGAGCTGGAGGTGATCAGCACCTTTGTGGACCTAAACCTCACGGTTCTGGAGGACCGCGAG
 694 ▶ AlaGluLeuGluValIleSerThrPheValAspLeuAsnLeuThrValLeuGluAspArgGlu
 2143 TTCTTGCCGCTAGAGTGTACACGCGCGCGGAGCTCGCCGACACGGGTCTGCTCGACTACAGC
 715 ▶ PheLeuProLeuGluValTyrThrArgAlaGluLeuAlaAspThrGlyLeuLeuAspTyrSer
 2206 GAGATACAGCGCGCAACGAGCTGCACGAGCTCCGGTTCTACGACATTGACCGCGGTGTCAG
 736 ▶ GluIleGlnArgArgAsnGlnLeuHisGluLeuArgPheTyrAspIleAspArgValValLys

FIG. 2D

2269 ACGACGGCAATATGGCCATCATGCGAGGCTCGCCAACTTCTTTACGGCCCTGGGCGCCGCTC
 757 ▶ ThrAspGlyAsnMetAlaIleMetArgGlyLeuAlaAsnPhenGlnGlyLeuGlyAlaVal
 2332 GGGCAGGCGGTGGCACGGTGGTGCTGGGCGCCGGGTGCCCGGCTCTCGACCGTGTCGGGC
 778 ▶ GlyGlnAlaValGlyThrValValLeuGlyAlaAlaGlyAlaLeuSerThrValSerGly
 2395 ATCGCCTCGTTTATTGCGAACCCGTTTCGGCGCGCTGGCCACGGGCTGCTGGTCTCGCCGGG
 799 ▶ IleAlaSerPheIleAlaAsnPropheGlyAlaLeuAlaThrGlyLeuLeuValLeuAlaGly
 2458 CTGGTGGCCGCTTTCTTGGGTACCGGTACATTTCGCCCTCCGACGCAACCCCATGAAGCGG
 820 ▶ LeuValAlaAlaPheLeuAlaTyxArgTyxIleSerArgLeuArgSerAsnProMetLysAla
 2521 CTGTACCCGATCACCCGCGCGCTCAAGGACGACGCCCGGGCGCAACCGCCCGCGGAG
 841 ▶ LeuTyxProIleThrThrArgAlaLeuLysAspAlaArgGlyAlaThrAlaProGlyGlu
 2584 GAAGAGGAGGAGTTTGACGCGGCCAAACTGGAGCAGGCCCGCGAGATGATCAAGTATATGTCG
 862 ▶ GluGluGluGluPheAspAlaAlaLysLeuGluGlnAlaArgGluMetIleLysTyxMetSer
 2647 CTCGTGTACGGGTGAGCGGCAAGAGCACAAAGCGAAAAAGAGCAACAAGGCGGCCCGCTG
 883 ▶ LeuValSerAlaValGluArgGlnGluHisLysAlaLysLysSerAsnLysGlyGlyProLeu
 2710 CTGGCGACCCGGCTGACGCAGCTCGCGCTTCGGCGCGAGCGCCGCGAGTACCAGCAGCTT
 904 ▶ LeuAlaThrArgLeuThrGlnLeuAlaLeuArgArgAlaProProGluTyxGlnGlnLeu
 2773 CCGATGGCCGACGTCGGGGGCGCATGA
 925 ▶ ProMetAlaAspValGlyGlyAla...

FIG. 2E

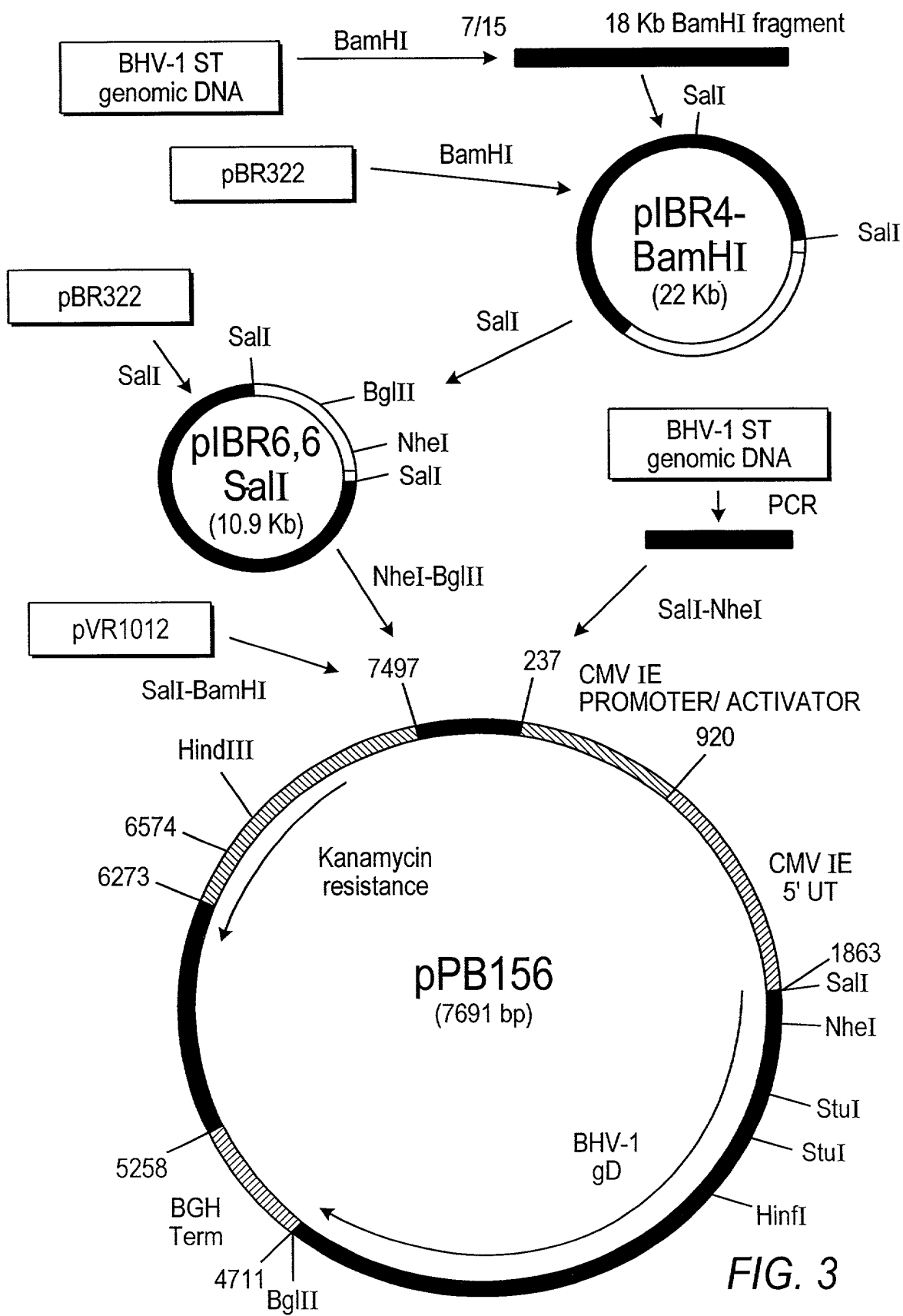


FIG. 3

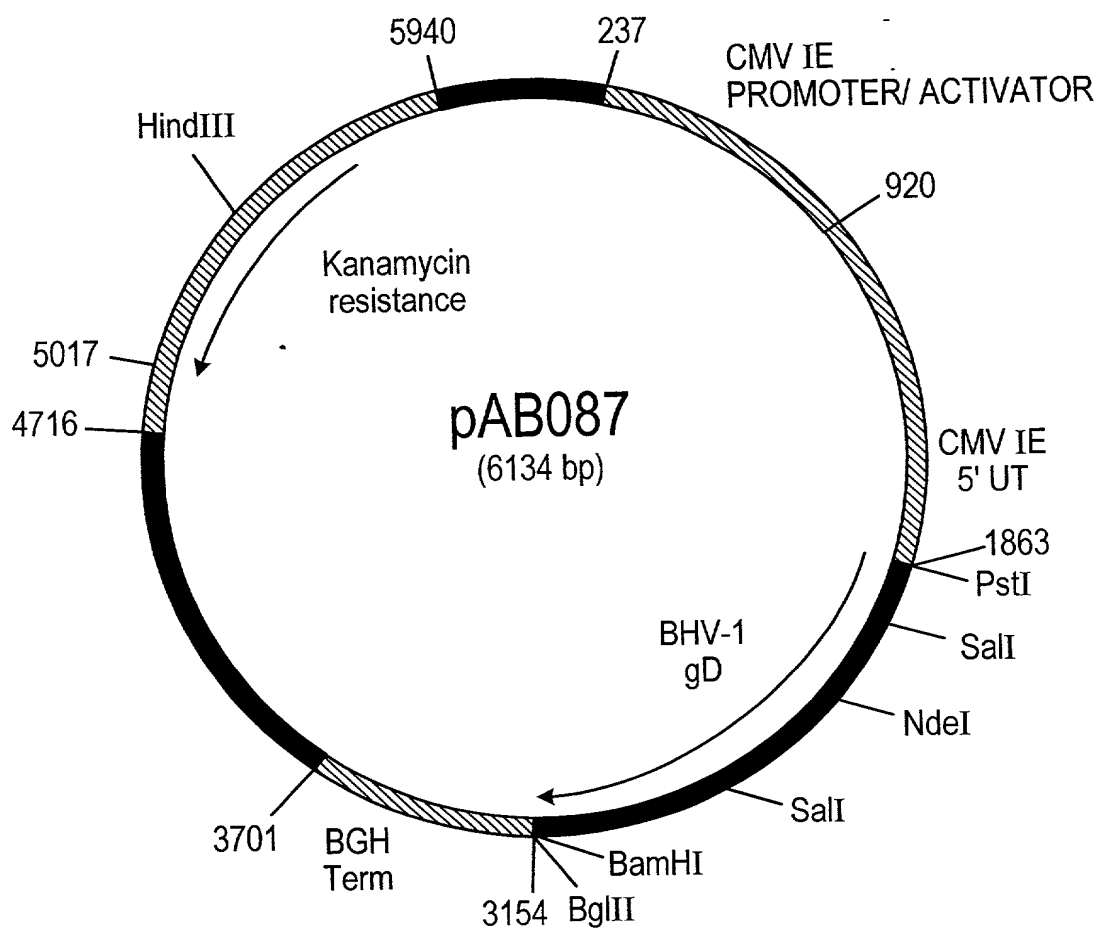
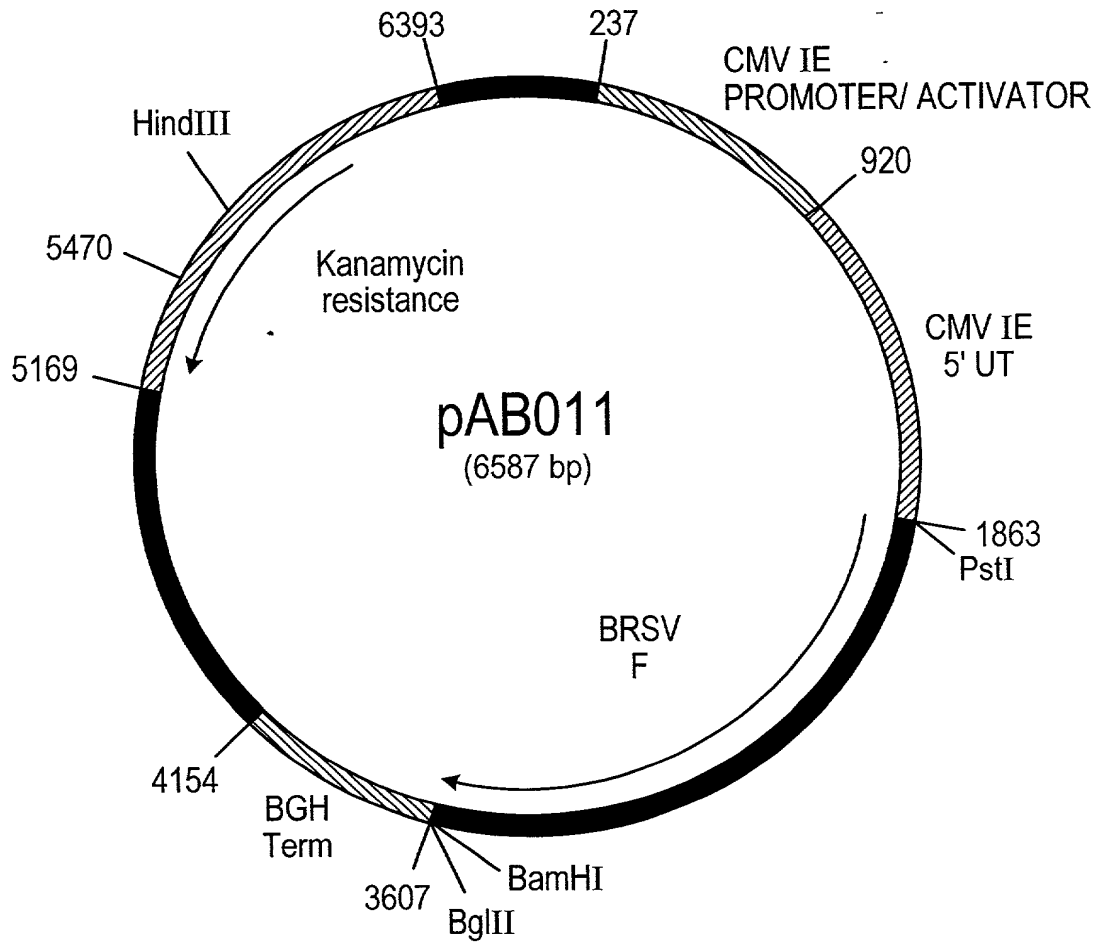
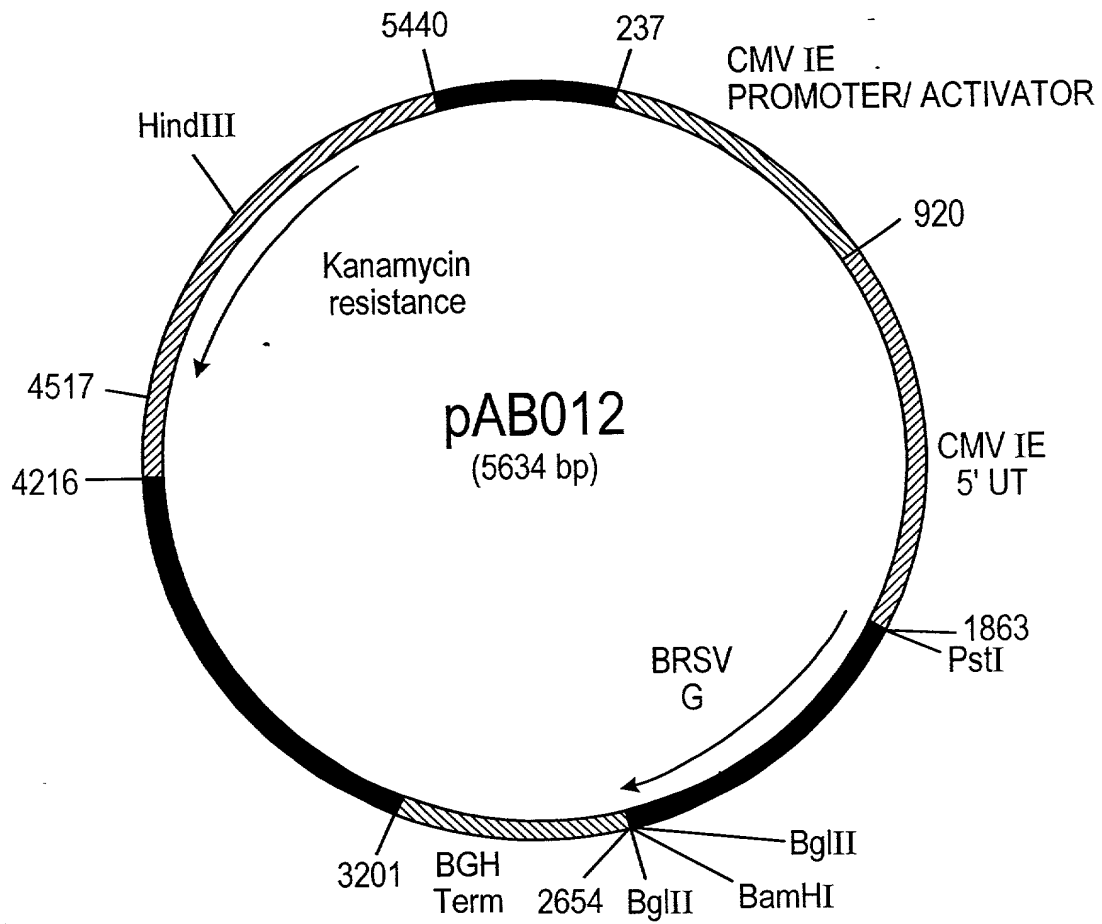
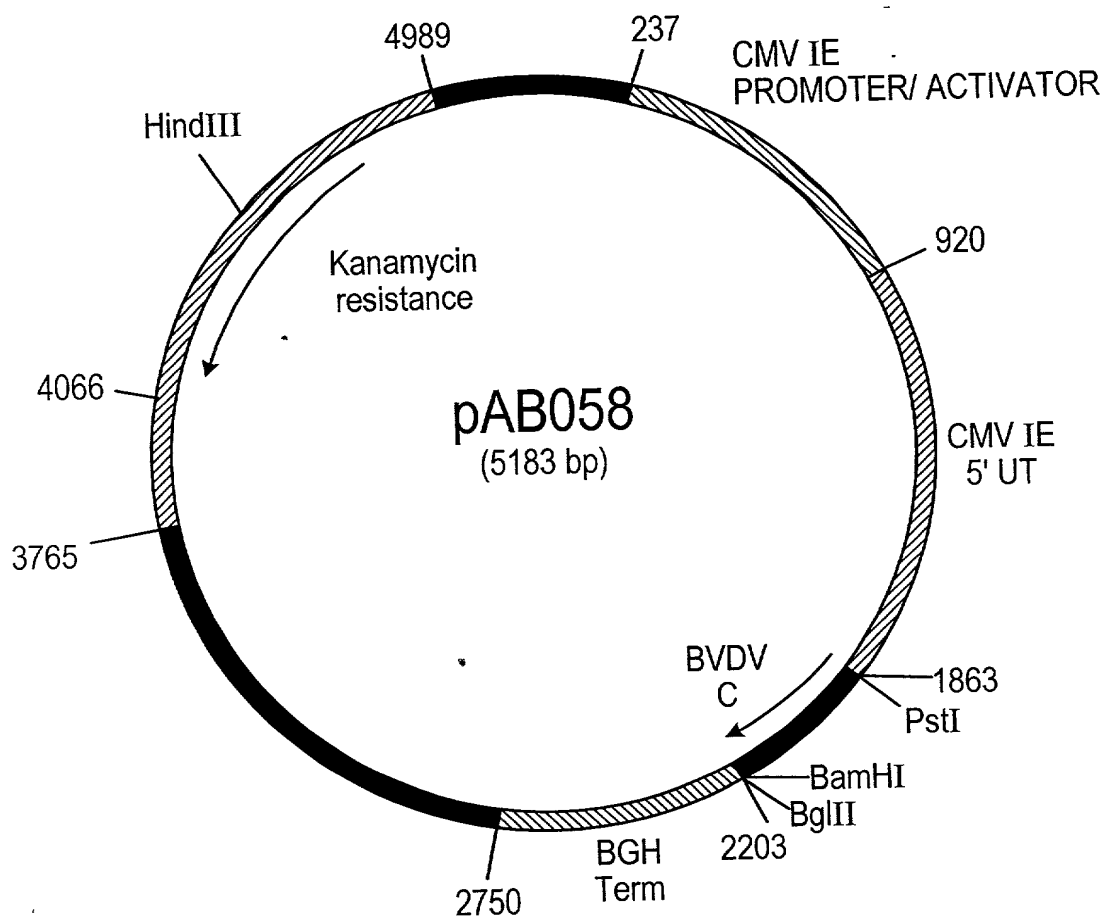
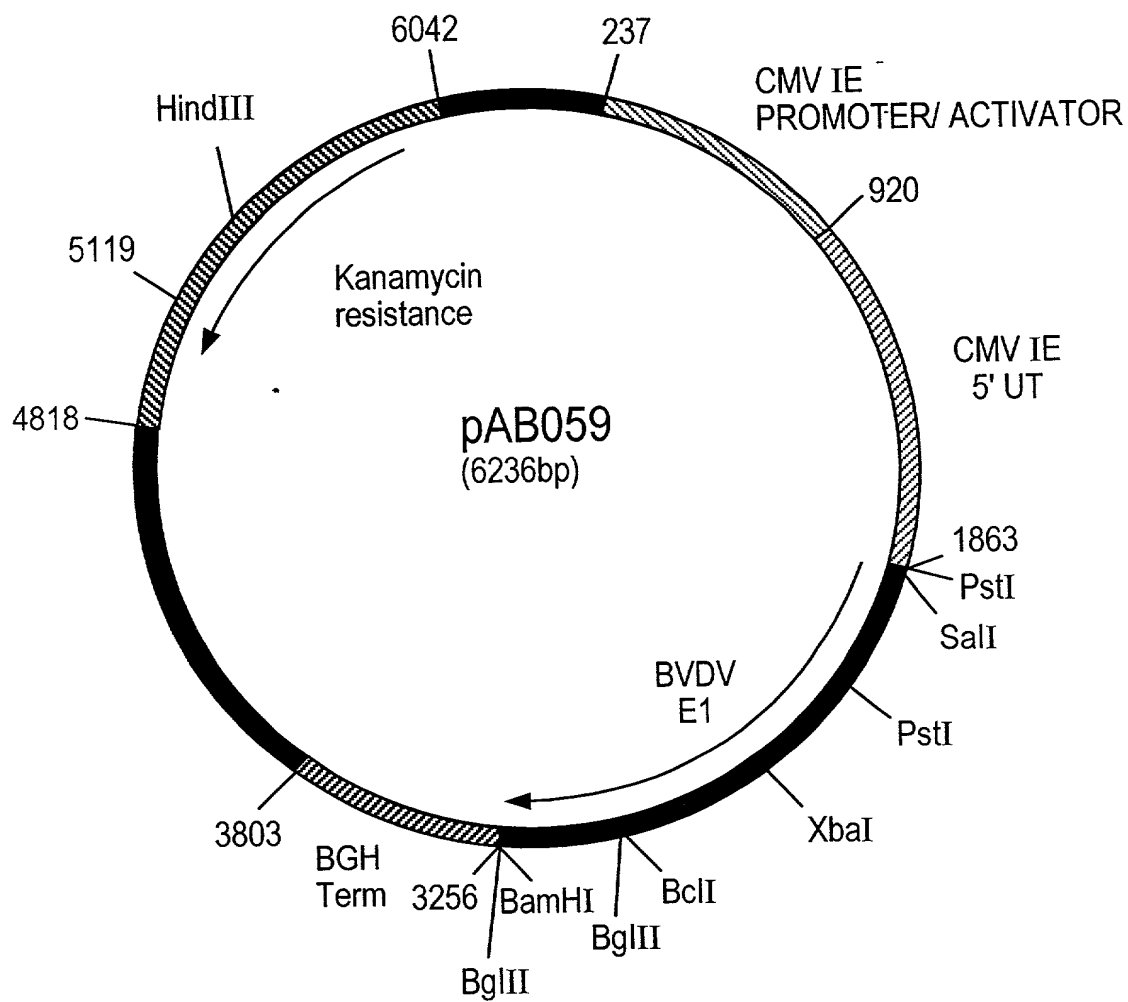


FIG. 4

**FIG. 5**

**FIG. 6**

**FIG. 7**

**FIG. 8**

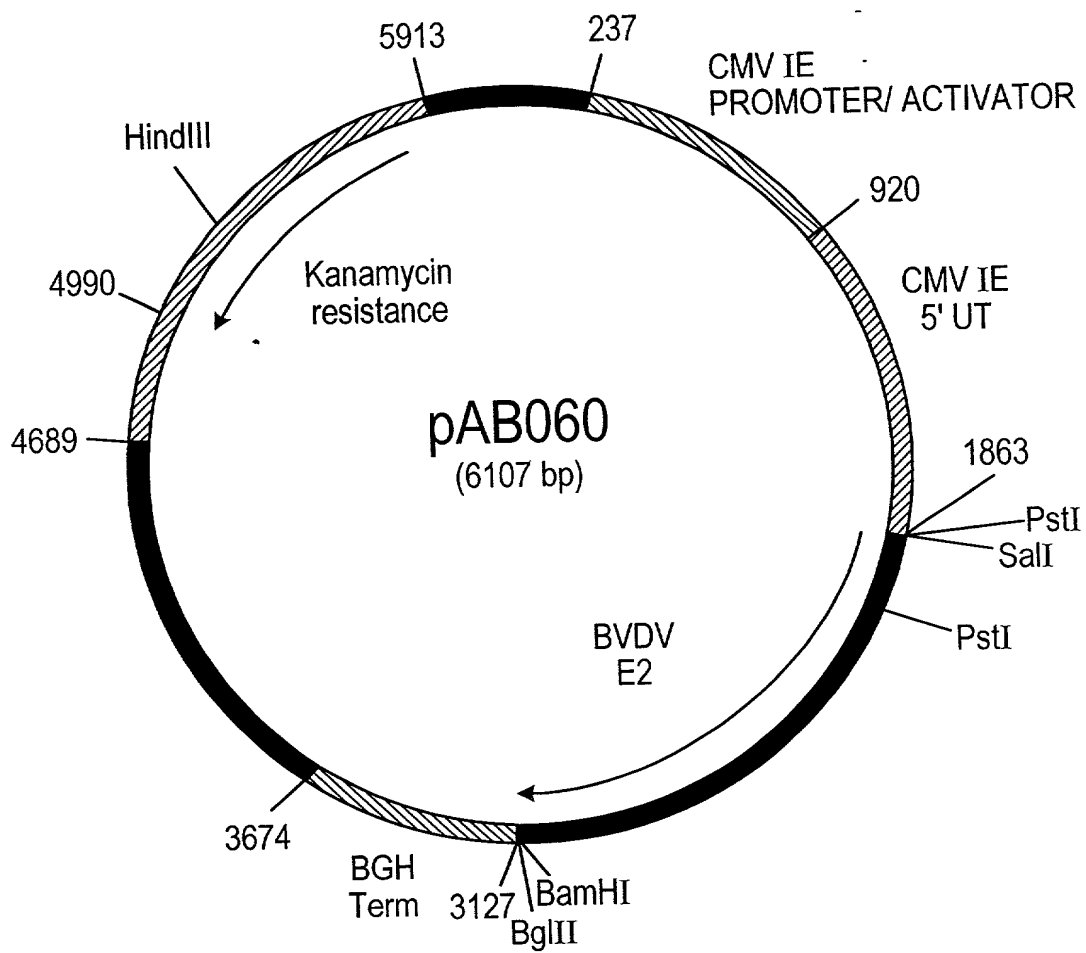
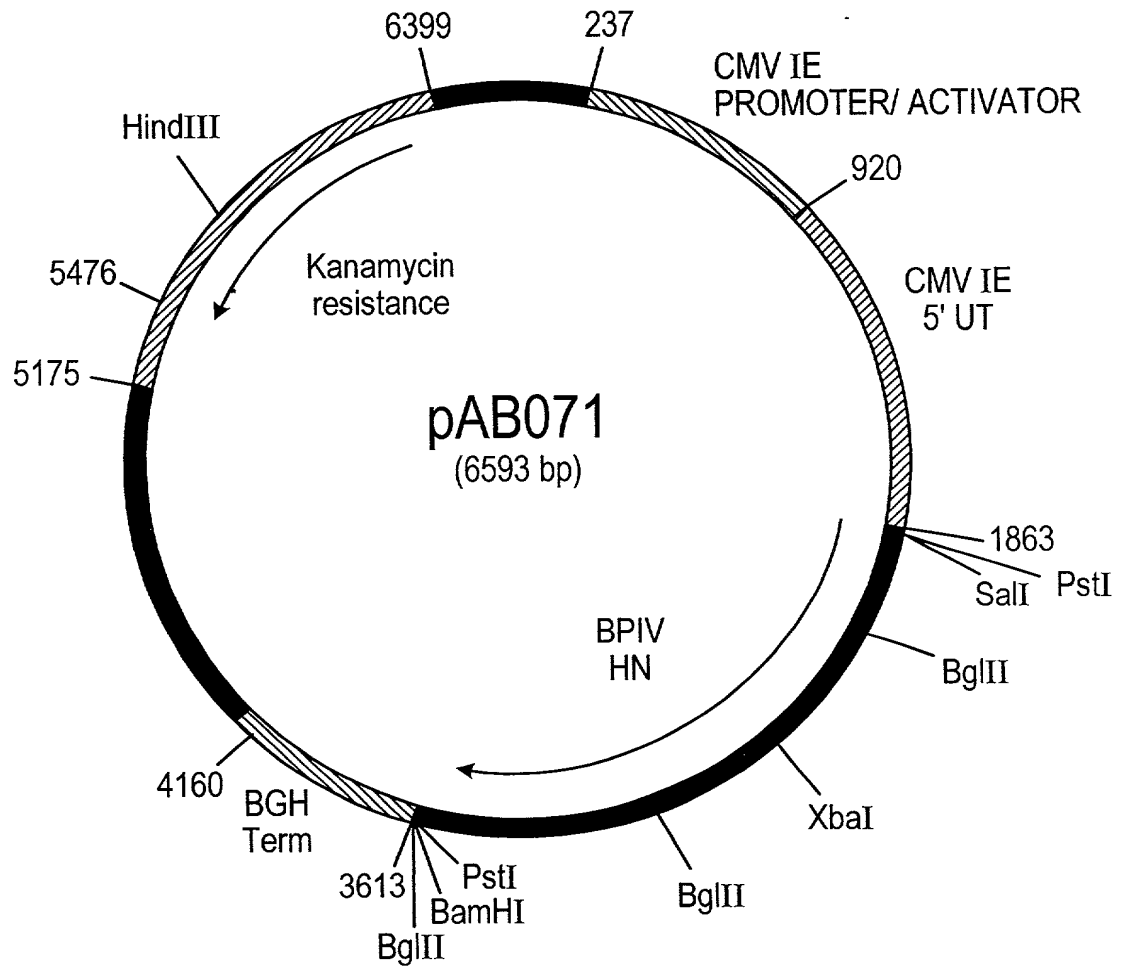
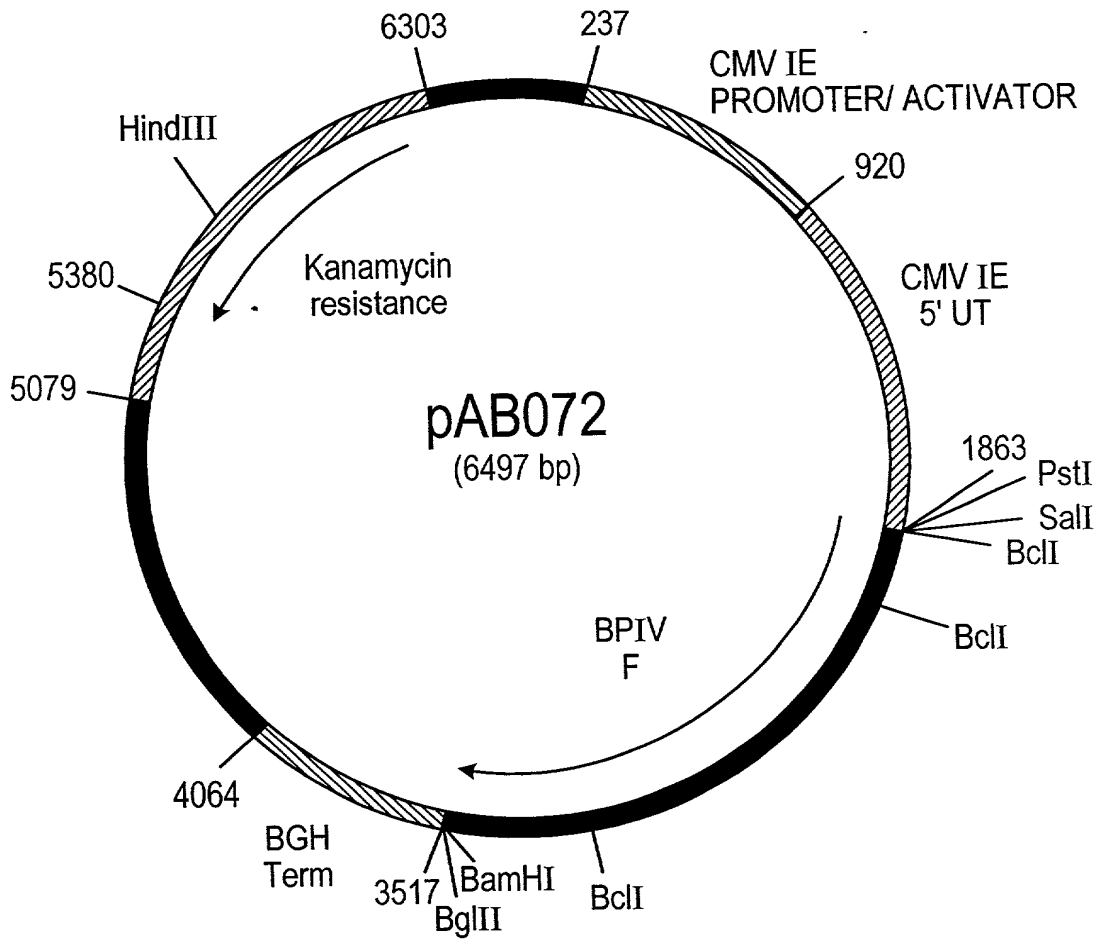


FIG. 9

**FIG. 10**

**FIG. 11**